

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P957134

Luminaire Tested: **GALN-SB9C-827-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957134
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45691 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

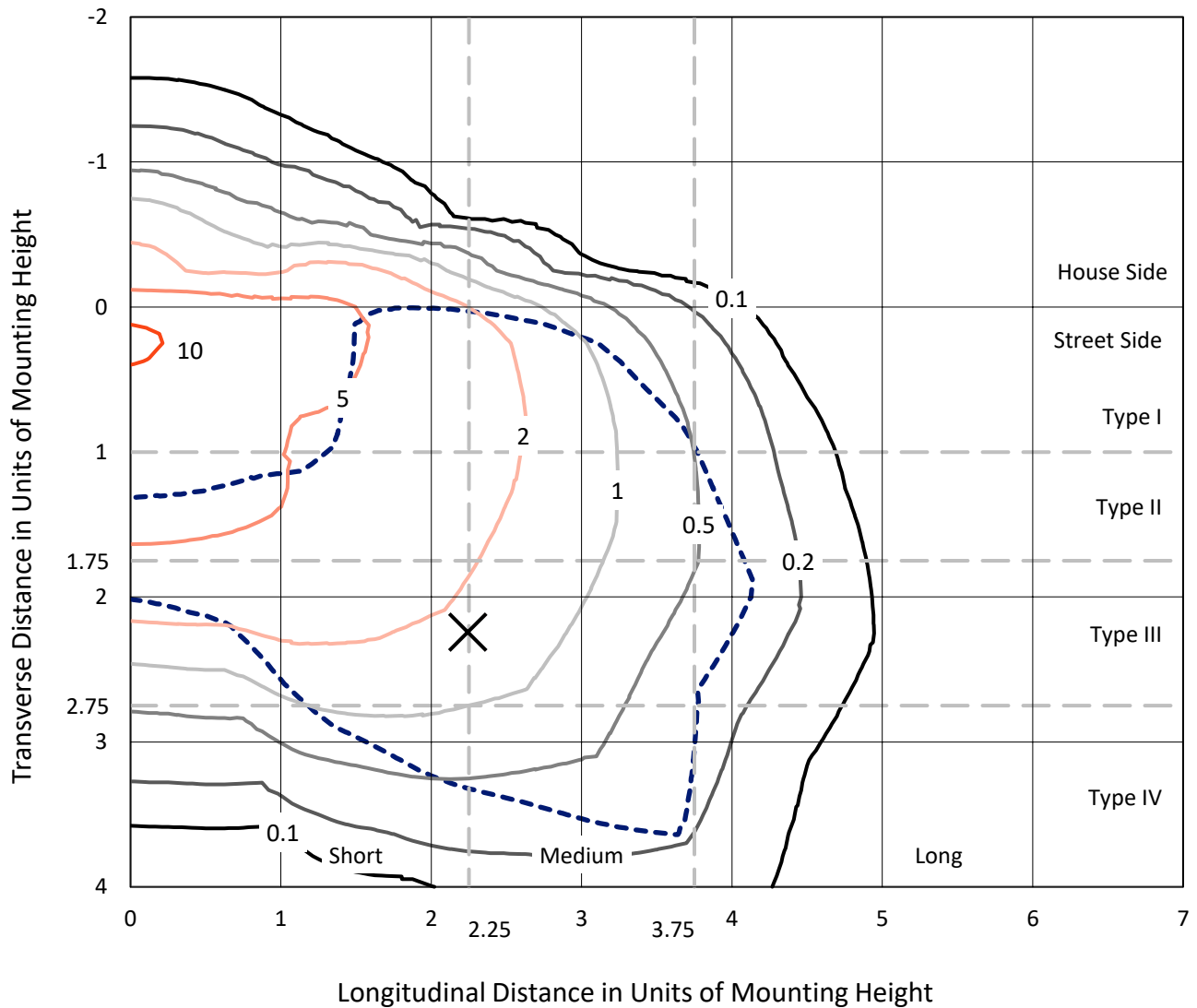
Input Watts (W): 449.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

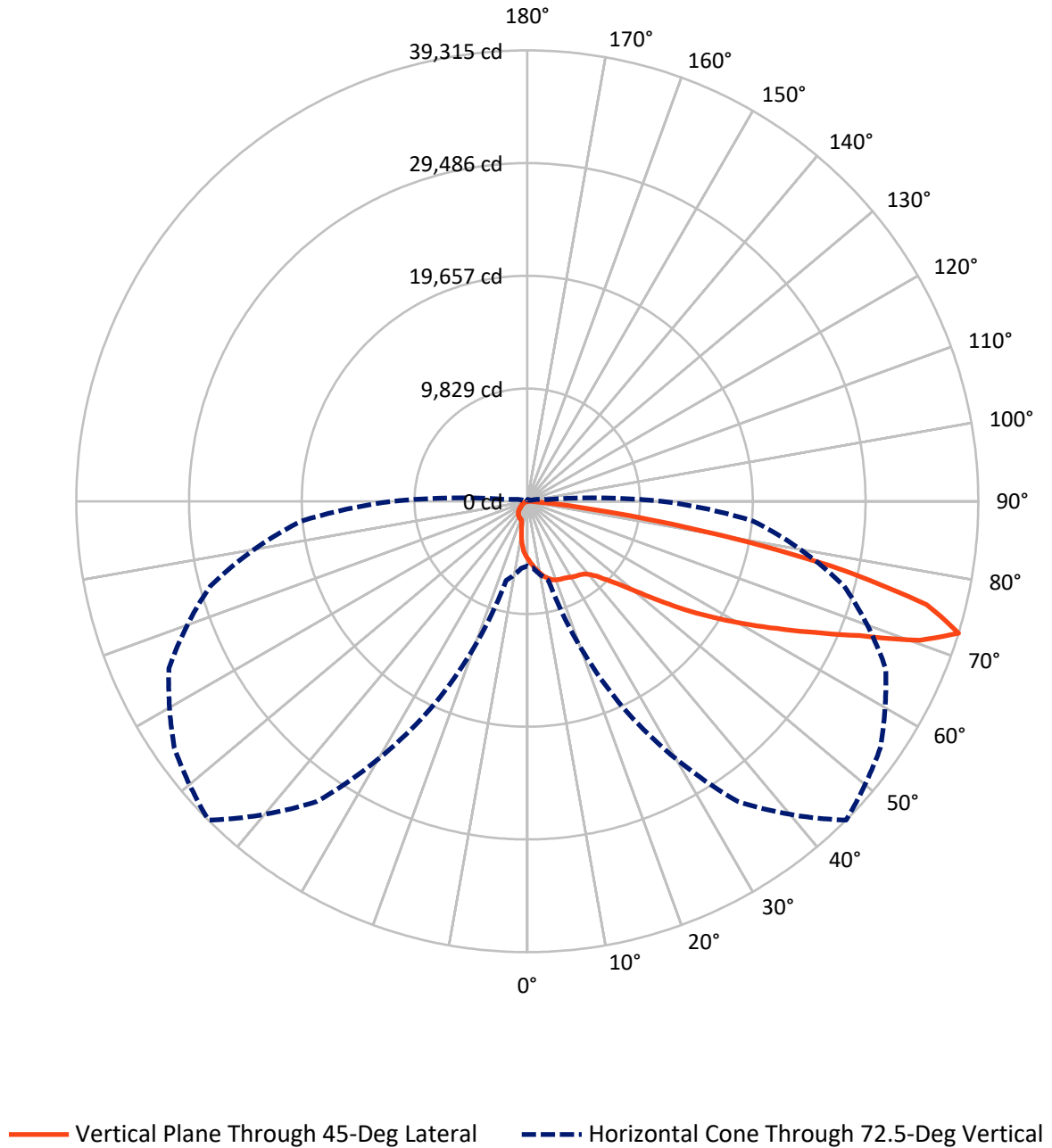
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4800.8	0.0	4800.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	40890.1	0.0	40890.1
	% Fixture	89.5	0.0	89.5
Total	Lumens	45691.0	0.0	45691.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	471.6	1.0
10°-20°	1378.4	3.0
20°-30°	2263.5	5.0
30°-40°	3210.1	7.0
40°-50°	5306.0	11.6
50°-60°	9531.7	20.9
60°-70°	13235.2	29.0
70°-80°	9600.4	21.0
80°-90°	694.1	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	45691.0	100.0
0°-180°	45691.0	100.0

Coefficient of Utilization



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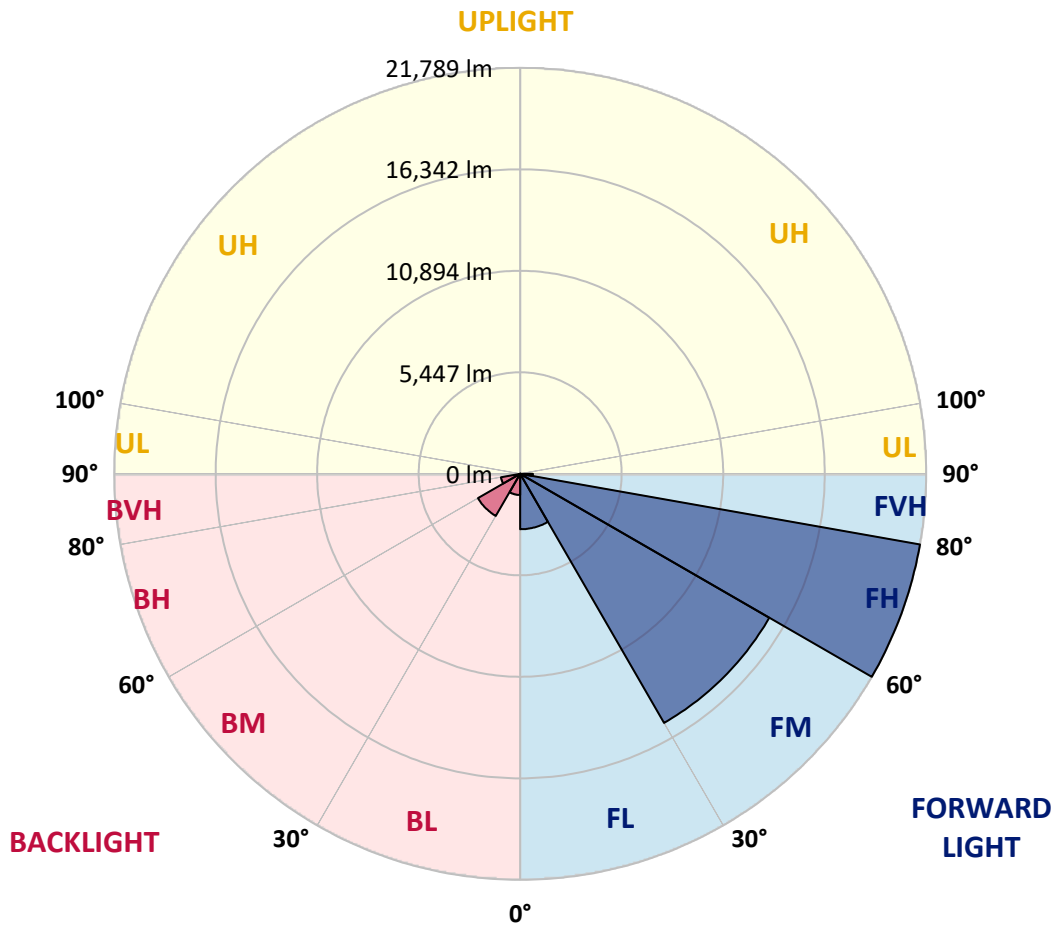
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2976.3	6.5			
FM (30°-60°)	15436.8	33.8			
FH (60°-80°)	21788.7	47.7			G5
FVH (80°-90°)	688.2	1.5			G4/750
BL (0°-30°)	1137.1	2.5	B3/2500		
BM (30°-60°)	2611.0	5.7	B3/5000		
BH (60°-80°)	1046.9	2.3	B3/2500		G3/2500
BVH (80°-90°)	5.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°
0°	5005.5	5005.5	5005.5	5005.5	5005.5	5005.5	5005.5	5005.5	5005.5	5005.5
2.5°	5467.1	5476.5	5470.2	5432.8	5370.4	5336.1	5317.4	5255.0	5214.5	5142.8
5°	5969.2	6006.7	5984.8	5910.0	5791.5	5707.3	5682.3	5554.4	5439.0	5304.9
7.5°	6502.5	6521.2	6480.7	6384.0	6225.0	6081.5	6059.7	5881.9	5697.9	5492.1
10°	6964.1	6985.9	6923.6	6783.2	6602.3	6424.6	6393.4	6196.9	5978.6	5726.0
12.5°	7350.8	7372.7	7291.6	7123.2	6923.6	6739.6	6708.4	6502.5	6262.4	5981.7
15°	7644.0	7684.5	7575.4	7394.5	7179.3	6995.3	6979.7	6777.0	6543.1	6231.2
17.5°	7815.5	7856.1	7753.1	7534.8	7350.8	7194.9	7176.2	7007.8	6789.5	6490.1
20°	7843.6	7881.0	7771.9	7581.6	7428.8	7304.0	7294.7	7173.1	7014.0	6727.1
22.5°	7759.4	7806.2	7706.4	7553.5	7447.5	7382.0	7369.5	7300.9	7210.5	6967.2
25°	7672.1	7709.5	7634.6	7500.5	7444.4	7438.1	7447.5	7435.0	7416.3	7210.5
27.5°	7665.8	7706.4	7622.2	7494.3	7463.1	7528.6	7537.9	7597.2	7612.8	7431.9
30°	7718.8	7746.9	7665.8	7531.7	7516.1	7665.8	7668.9	7775.0	7799.9	7619.0
32.5°	7834.2	7865.4	7784.3	7587.8	7566.0	7775.0	7784.3	7924.7	7965.2	7818.6
35°	8105.6	8143.0	8049.4	7743.8	7665.8	7877.9	7906.0	8071.2	8152.3	8030.7
37.5°	8782.3	8673.2	8545.3	8058.8	7893.5	8040.1	8086.8	8280.2	8423.7	8283.3
40°	10463.3	10120.2	9721.1	8595.2	8292.7	8386.2	8423.7	8617.0	8813.5	8676.3
42.5°	12986.4	12580.9	11938.5	9830.2	8894.6	8941.4	8969.4	9137.9	9415.4	9306.3
45°	15234.9	15088.4	14433.4	11938.5	10020.4	9789.7	9824.0	9911.3	10319.8	10279.3
47.5°	16962.7	16878.5	16373.3	14358.6	11922.9	10828.2	10924.9	10965.4	11554.9	11698.3
50°	18291.3	18260.1	17807.9	16510.5	14408.5	12359.5	12393.8	12306.5	13189.1	13544.6
52.5°	19545.0	19651.1	19317.4	18509.6	17062.5	14364.8	14358.6	13946.9	15138.3	15674.7
55°	20677.1	20714.5	20748.8	20549.2	19732.1	16647.7	16588.5	15914.8	17399.3	17954.5
57.5°	21740.6	21756.2	22061.8	22470.4	22510.9	19099.0	18989.9	18182.1	19869.4	20265.4
60°	22454.8	22526.5	23172.1	24307.3	24803.2	21628.3	21569.1	20745.7	22383.1	22567.1
62.5°	21425.6	21862.2	23490.2	25741.9	26967.6	24432.1	24404.0	23630.5	25027.7	24878.0
65°	17343.2	18082.3	20945.3	26711.8	29091.4	27563.3	27603.8	26780.5	27744.1	27257.6
67.5°	12131.8	12911.5	16298.4	26789.8	31464.8	31240.2	31474.1	30183.0	30629.0	29537.4
70°	8389.4	8791.7	10996.6	25111.9	33314.2	36305.0	36298.8	34362.1	33498.2	30575.9
72.5°	5641.8	5850.7	7141.9	19922.4	31954.4	39314.6	39133.7	37555.6	34465.0	28595.5
75°	2379.6	2532.4	3305.8	11196.2	25280.3	35968.2	35478.6	33189.4	30622.7	22517.2
77.5°	754.7	820.2	1303.6	4007.6	13925.1	27036.2	26518.5	20727.0	20524.3	11296.0
80°	358.7	417.9	732.9	1609.3	5479.6	14704.8	14633.0	9402.9	8829.1	3050.1
82.5°	155.9	184.0	405.4	860.8	2451.3	5245.7	5351.7	3199.8	2647.8	1157.0
85°	49.9	65.5	187.1	396.1	1035.4	1303.6	1288.0	761.0	1066.6	630.0
87.5°	0.0	0.0	62.4	90.4	106.0	74.8	84.2	65.5	296.3	174.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
5005.5	0°	5005.5	5005.5	5005.5	5005.5	5005.5	5005.5	5005.5	5005.5	5005.5	5005.5
5067.9	2.5°	5030.5	4980.6	4893.3	4812.2	4740.5	4668.7	4625.1	4562.7	4556.5	4556.5
5149.0	5°	5064.8	4983.7	4827.8	4662.5	4472.2	4291.4	4110.5	3935.8	3879.7	3839.1
5280.0	7.5°	5164.6	5036.7	4790.4	4475.4	4113.6	3717.5	3439.9	3140.6	3025.2	2962.8
5454.6	10°	5308.1	5133.4	4759.2	4207.2	3620.8	3081.3	2685.2	2360.9	2236.1	2183.1
5644.9	12.5°	5467.1	5251.9	4703.0	3873.5	3081.3	2435.7	2049.0	1899.3	1880.6	1880.6
5872.6	15°	5657.4	5395.4	4606.4	3480.5	2516.8	1927.4	1790.1	1796.4	1815.1	1827.6
6094.0	17.5°	5853.8	5548.2	4453.5	3040.8	2017.8	1734.0	1737.1	1746.5	1762.1	1774.6
6334.1	20°	6065.9	5701.0	4250.8	2572.9	1730.9	1677.9	1687.2	1696.6	1709.1	1715.3
6558.7	22.5°	6293.6	5844.5	4010.7	2114.5	1634.2	1631.1	1634.2	1643.6	1659.2	1659.2
6820.6	25°	6536.8	6003.5	3736.2	1780.8	1584.3	1584.3	1590.5	1596.8	1609.3	1609.3
7073.3	27.5°	6786.3	6150.1	3446.2	1606.1	1540.6	1537.5	1537.5	1546.9	1553.1	1556.2
7322.8	30°	7060.8	6321.6	3156.1	1568.7	1506.3	1490.7	1481.4	1487.6	1493.9	1497.0
7584.7	32.5°	7341.5	6486.9	2897.3	1584.3	1472.0	1444.0	1412.8	1406.5	1406.5	1419.0
7856.1	35°	7653.3	6667.8	2697.7	1637.3	1453.3	1375.4	1325.5	1297.4	1300.5	1319.2
8180.4	37.5°	8027.6	6886.1	2551.1	1684.1	1440.8	1297.4	1216.3	1182.0	1160.2	1182.0
8626.4	40°	8517.2	7207.4	2445.1	1721.5	1425.3	1206.9	1097.8	1041.7	1001.1	1013.6
9318.7	42.5°	9237.6	7712.6	2404.5	1724.7	1390.9	1100.9	976.2	901.3	842.1	845.2
10360.4	45°	10248.1	8511.0	2613.5	1684.1	1316.1	985.5	848.3	748.5	711.1	701.7
11916.6	47.5°	11632.8	9674.3	3096.9	1599.9	1206.9	873.2	723.5	639.3	611.3	595.7
13959.4	50°	13488.5	11168.1	3633.3	1506.3	1097.8	767.2	620.6	567.6	548.9	533.3
16382.6	52.5°	15640.4	12683.8	4073.0	1412.8	988.6	673.6	555.1	523.9	508.4	495.9
18721.7	55°	17614.5	13728.6	4048.1	1313.0	882.6	598.8	508.4	489.6	470.9	458.5
20736.4	57.5°	18843.3	13875.2	3337.0	1203.8	761.0	539.5	464.7	452.2	430.4	414.8
22479.7	60°	19407.8	13039.4	2339.0	1060.4	639.3	483.4	417.9	411.7	383.6	361.8
24129.5	62.5°	19510.7	11486.2	1559.4	882.6	533.3	430.4	371.1	361.8	324.3	286.9
25470.6	65°	19092.8	9265.7	1079.1	689.2	455.3	374.2	318.1	299.4	258.9	221.4
25788.7	67.5°	17770.5	6505.7	751.6	495.9	386.7	296.3	252.6	246.4	215.2	184.0
24167.0	70°	15347.2	3708.2	502.1	371.1	305.6	202.7	199.6	205.8	174.6	149.7
19744.6	72.5°	11766.9	1696.6	311.9	271.3	209.0	137.2	159.1	162.2	134.1	112.3
12318.9	75°	6926.7	726.7	196.5	174.6	106.0	90.4	115.4	118.5	90.4	71.7
4503.4	77.5°	2357.8	274.4	124.7	102.9	53.0	49.9	74.8	74.8	49.9	28.1
904.4	80°	536.4	102.9	62.4	40.5	24.9	21.8	24.9	21.8	12.5	3.1
277.6	82.5°	152.8	40.5	24.9	15.6	9.4	9.4	3.1	0.0	0.0	0.0
96.7	85°	43.7	18.7	6.2	6.2	0.0	0.0	0.0	0.0	0.0	0.0
34.3	87.5°	18.7	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
5005.5
4572.0
3857.9
2972.1
2183.1
1880.6
1827.6
1774.6
1718.4
1665.4
1612.4
1559.4
1503.2
1428.4
1328.6
1175.8
1007.3
832.7
689.2
586.3
530.2
492.8
452.2
411.7
355.5
268.2
209.0
174.6
137.2
99.8
62.4
21.8
0.0
0.0
0.0
0.0
0.0

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